



## **IDEM's Surface Water Quality Assessment Program**

### **Fixed Station (Ambient) Monitoring Program**

#### **Program Objective**

The objective of this program is to provide basic information that will reveal water quality trends and provide data for the many existing and prospective users of surface water in Indiana. The program was developed to determine chemical, physical, bacteriological, and biological characteristics of Indiana water under changing conditions. The information has been used in determining background data for certain types of pollutants, such as chlorides and phosphorous. The information also assists in the development of wasteload allocations and NPDES permits for wastewater treatment plants; for other municipal, industrial, agricultural, and recreational uses. Additionally, the information is collected for future pollution abatement activities such as from review of non-point source effects; and in procuring data useful and necessary for securing public action toward the preservation of streams for all beneficial uses.

#### **Program Participants**

This program is operated through the sampling efforts by the Survey Section of the Indiana Department of Environmental Management's Office of Water Quality (OWQ) at the Assessment Branch. Laboratory analyses are performed at the Indiana State Department of Health (ISDH) Laboratory.

#### **Program Description**

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|----------------------|--|
| Media:               | Surface Water: rivers, streams and lakes                   |
| Study Area:          | Statewide  |
| Site Selection Type: | Network established in 1957                                |
| Sampling Sites:      | 160 fixed stations   |
| Sampling Frequency:  | Monthly  |
| Data Collected:      | Water Chemistry, Bacteriological and Field Analytical Data |

#### **Program Product(s)**

- ▶ Report: Indiana Water Quality Monitor Station Records: Rivers and Streams
- ▶ Data available in the U.S. EPA **STORET** database

**Technical Notes B Parameters vary for each site**

| Water Chemistry Parameters |                     |                      |                           |
|----------------------------|---------------------|----------------------|---------------------------|
| Priority Metals            | Secondary Metals    | Anions Physical      | Others                    |
| Arsenic                    | Calcium             | Alkalinity           | TKN                       |
| Cadmium                    | Iron                | Total Solids         | Ammonia                   |
| Chromium                   | Magnesium           | Suspended Solids     | Nitrate-Nitrite           |
| Chromium (Cr+6)            | Manganese           | Dissolved Solids     | Total Phosphorus          |
| Total Chromium             | Sodium              | Flouride             | TOC                       |
| Copper                     | Dissolved Iron      | Sulfate              | Cyanide                   |
| Lead                       | Dissolved Manganese | Chloride             | ROD                       |
| Mercury                    | Dissolved Copper    | Hardness             | COD                       |
| Selenium                   | Dissolved Lead      | Dissolved Oxygen     | E. coli                   |
| Nickel                     | Dissolved Zinc      | PH                   | Dissolved reactive silica |
| Zinc                       |                     | Specific Conductance | Phenols                   |
| Barium                     |                     |                      |                           |
| Silver                     |                     |                      |                           |

**Contact Information**

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| <p><b>IDEM Information:</b><br/>         (317) 233-1044 or<br/>         800-451-6027<br/>         800-743-3333(TDD)<br/>         toll-free for Indiana<br/>         residents</p> <p><b>EnviroLine:</b><br/>         (317) 232-8603 or<br/>         800-451-6027 toll-free<br/>         for Indiana residents</p> <p><b>Fax on Demand:</b><br/>         800-726-8000</p> <p><b>Internet:</b><br/> <a href="http://www.state.in.us/idem">www.state.in.us/idem</a></p> | <p><b><u>For More Information on IDEM's Office of Water Quality...</u></b></p> <p><b>Assessment Branch</b> (Surface water quality: river, streams and lakes)<br/>         Shadeland Office, Indianapolis (317) 308-3173</p> <p><b>Permitting Branch</b> (NPDES permits) Indiana Government Center North,<br/>         Indianapolis (317) 232-8675</p> <p><b>Compliance Branch</b> (facilities assistance, inspections and compliance)<br/>         Indiana Government Center North, Indianapolis (317) 232-6770</p> <p><b>Drinking Water Branch</b> (Public water supply and ground water protection)<br/>         Shadeland Office, Indianapolis (317) 308-3280</p> <p><b>Planning &amp; Restoration Branch</b> (Water quality standards/rules, grants and<br/>         loans) Indiana Government Center North, Indianapolis (317) 233-8488</p> |
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